

Title (en)

PEDALING TORQUE SENSOR DEVICE FOR EACH CYCLIST'S LEG AND POWER METER APPARATUS

Title (de)

DREHMOMENTSENSORVORRICHTUNG FÜR BEIDE BEINE EINES RADFAHRERS UND LEISTUNGSMESSVORRICHTUNG

Title (fr)

DISPOSITIF DE CAPTEUR DE COUPLE DE PÉDALAGE POUR CHAQUE JAMBE DU CYCLISTE ET APPAREIL DE MESURE DE PUISSANCE

Publication

EP 2739950 A2 20140611 (EN)

Application

EP 12740938 A 20120723

Priority

- ES 201100881 A 20110802
- EP 2012064432 W 20120723

Abstract (en)

[origin: WO2013017465A2] Pedaling torque sensor crank arm (1) for any single cyclist's leg, consisting of a crank arm internally instrumented to know its deflection in the pedaling plane. This crank arm is symmetric with respect to the plane containing the bottom bracket axis (3) and the pedal axis (4) and has two respectively symmetrical straight holes (5, 6) with respect to this plane, longitudinally executed inside the crank arm from its end corresponding to the bottom bracket axis, housing strain gauges (2) attached inside the holes. It is also object of the invention a power meter apparatus (40) comprising two of said pedaling torque sensor, and which incorporates a computing utility for pedaling training, and optionally activated by the cyclist, that generates a warning signal sound whenever this utility detects a negative torque application in one of the cyclist's legs.

IPC 8 full level

G01L 3/00 (2006.01)

CPC (source: EP US)

G01L 3/00 (2013.01 - EP US); **G01L 3/10** (2013.01 - US)

Citation (search report)

See references of WO 2013017465A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

WO 2013017465 A2 20130207; WO 2013017465 A3 20130425; WO 2013017465 A4 20130613; DE 202012012932 U1 20140408; DE 212012000134 U1 20140327; EP 2739950 A2 20140611; ES 1101230 U 20140225; ES 1101230 Y 20140519; TW 201307145 A 20130216; US 2014200835 A1 20140717

DOCDB simple family (application)

EP 2012064432 W 20120723; DE 202012012932 U 20120723; DE 212012000134 U 20120723; EP 12740938 A 20120723; ES 201490004 U 20120723; TW 101127552 A 20120730; US 201214234410 A 20120723